

ABSTRACT

5 The invention provides an exposure apparatus that
outputs a stable photographic quality image unaffected by
variations in ambient temperature, by suppressing the
effects of the temperature variations and achieving
accurate grayscale reproduction. In the exposure
apparatus, input grayscale data P4 is converted into
corrected grayscale data by using a conversion table for
10 correcting for the nonlinearity of exposure density, and
grayscale exposure is performed on a photosensitive
material by controlling exposure conditions in an
exposure head based on the corrected grayscale data;
here, the conversion table actually comprises a plurality
15 of conversion tables one for each designated temperature
region, and a temperature detector is provided for
detecting the ambient temperature, with provisions made
to select an appropriate one of the conversion tables
under the control of select data in accordance with the
20 temperature data supplied from the temperature detector.
The exposure apparatus can thus achieve accurate
grayscale reproduction and output a stable photographic
quality image even when the ambient temperature varies.